

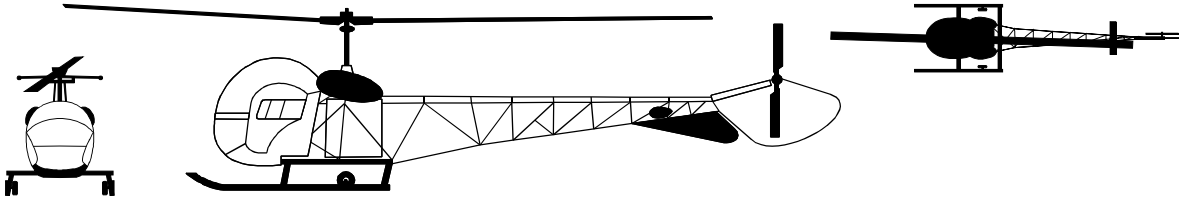
INTERAGENCY HELICOPTER OPERATIONS GUIDE
APPENDIX L - Standard Helicopter Makes and Models

APPENDIX L: STANDARD HELICOPTER MAKES AND MODELS

This appendix provides typical data for various makes and models of helicopters. This data is not to be utilized for load calculation purposes. The data is for reference and comparison purposes only.

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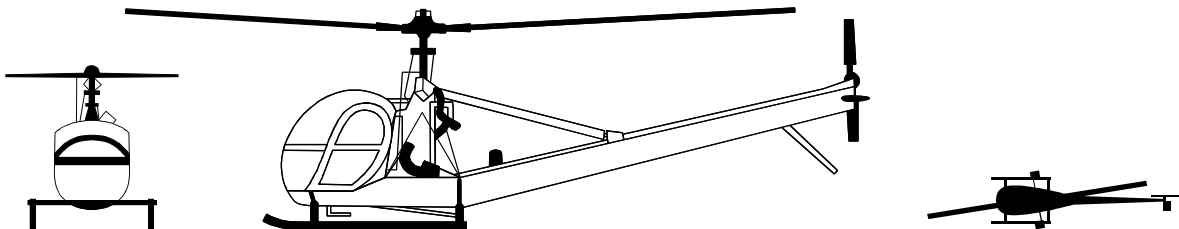
Exhibit L-1: Bell 47 Soloy



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
44	37	96-108	37	23	75 / 86	1800	120	2	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)	780	780	780
Hover-Out-Of-Ground-Effect (non-jettisonable)	780	700	675

Exhibit L-2: Hiller 12-D/E Soloy

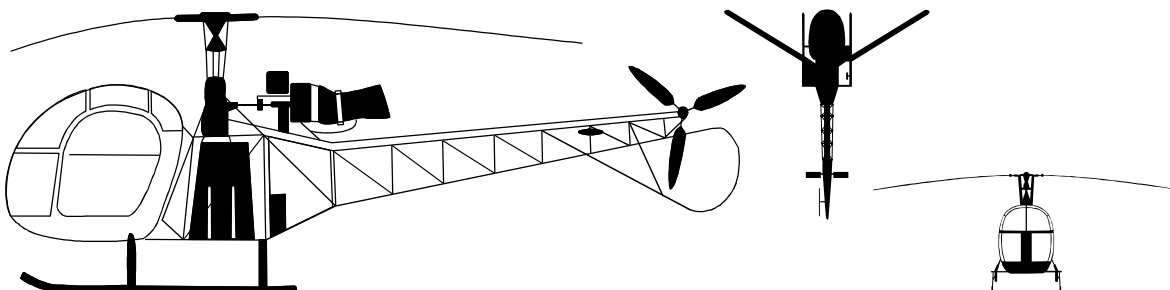


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
41	36	96-108	48	23	78 / 90	1900	100	2	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)	725	725	575
Hover-Out-Of-Ground-Effect (non-jettisonable)	725	725	425

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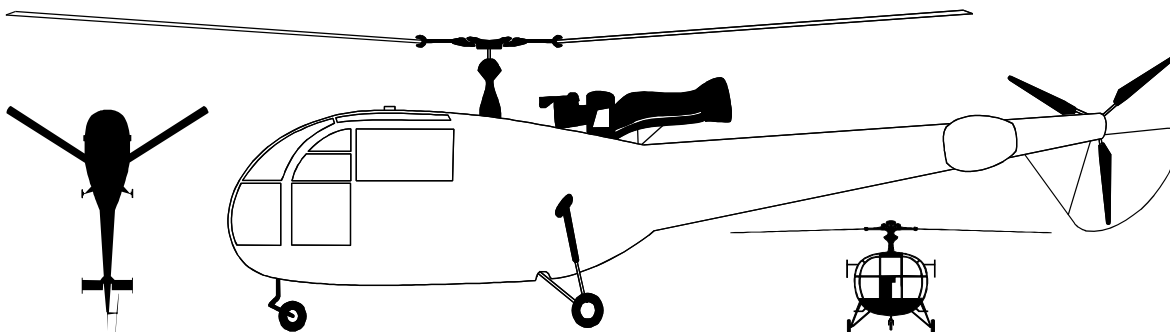
Exhibit L-3: Aerospatiale SA-315B Lama



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	36	180	83	55	80 / 92	2600	180	4	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)		925	925
Hover-Out-Of-Ground-Effect (non-jettisonable)		925	925

Exhibit L-4: Aerospatiale SA-316B Alouette III

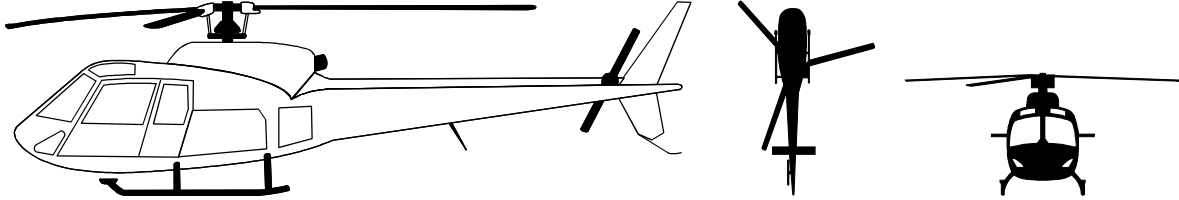


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
42	36	144	83	55	80 / 92	3000	170	6	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)	1160	1160	1080
Hover-Out-Of-Ground-Effect (non-jettisonable)	1160	1055	870

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Exhibit L-5: Aerospatiale AS-350D-1 A-Star



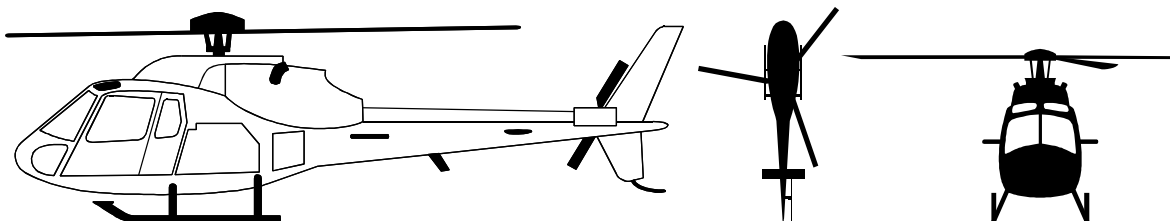
Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	35	108-144	69	46	108 / 124	2800	190	4	3
Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.									
Temperature and Elevation				30° c ~ 86° F Sea Level		30° c ~ 86° F 5000 feet		25° c ~ 77° F 8000 feet	
Hover-In-Ground-Effect (non-jettisonable)						980		580	
Hover-Out-Of-Ground-Effect (non-jettisonable)						600		255	

Exhibit L-6: Aerospatiale AS-350B-2 Ecureuil

Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	35	240	68	45	125 / 144	2800	190	5	3
Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.									
Temperature and Elevation				30° c ~ 86° F Sea Level		30° c ~ 86° F 5000 feet		25° c ~ 77° F 8000 feet	
Hover-In-Ground-Effect (non-jettisonable)				1450		1450		1100	
Hover-Out-Of-Ground-Effect (non-jettisonable)				1950		1200		750	

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Exhibit L-7: Aerospatiale AS-355F-1 TwinStar

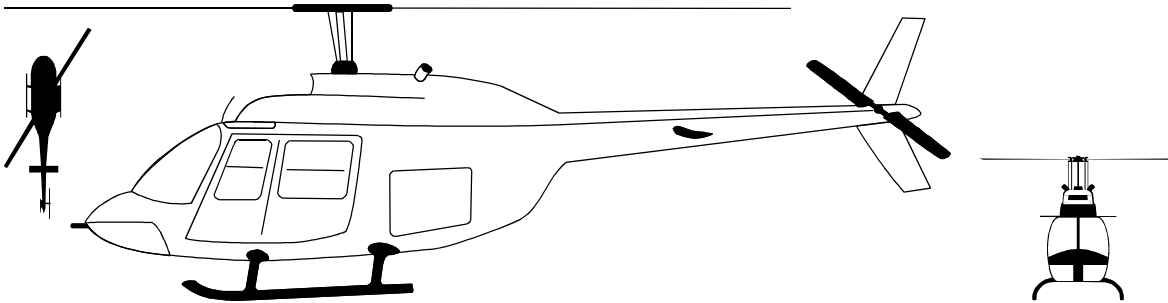


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	35	108-144	87	58	115 / 132	3250	140	4	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)		925	500
Hover-Out-Of-Ground-Effect (non-jettisonable)		625	200

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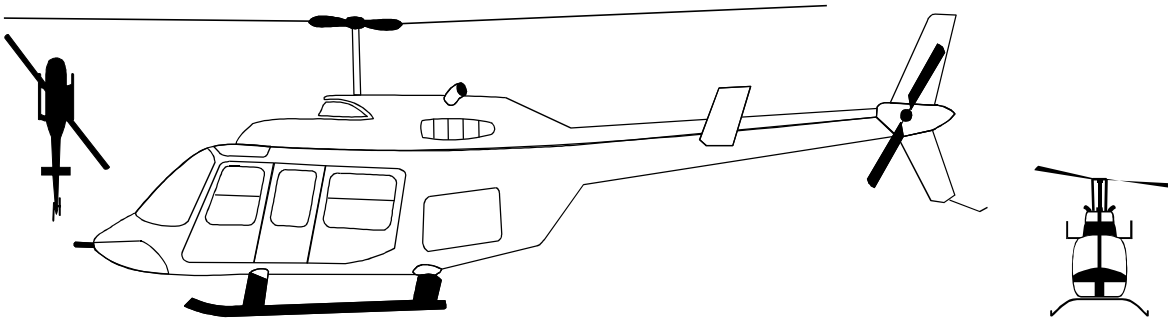
Exhibit L-8: Bell 206 B-3 JetRanger



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
39	33	96-108	40	26	97 / 112	1850	130	4	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)	945	945	750
Hover-Out-Of-Ground-Effect (non-jettisonable)	945	715	380

Exhibit L-9: Bell 206 L-3 LongRanger

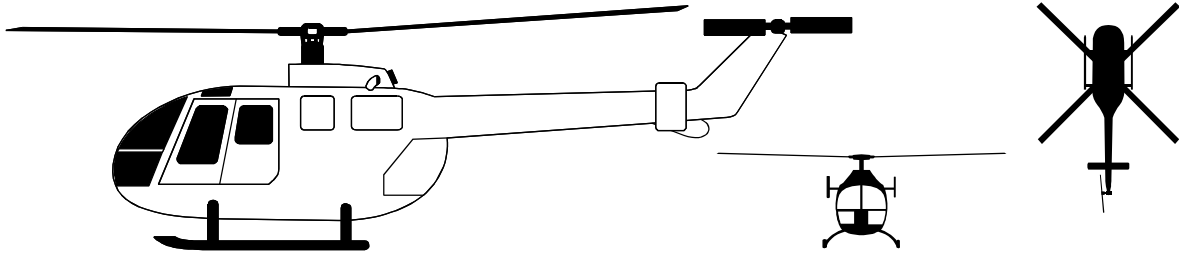


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	37	96-144	52	35	110 / 127	2400	180	6	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)	1150	1150	1150
Hover-Out-Of-Ground-Effect (non-jettisonable)	1150	950	830

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Exhibit L-10: Eurocopter (MBB) BO-105 CB

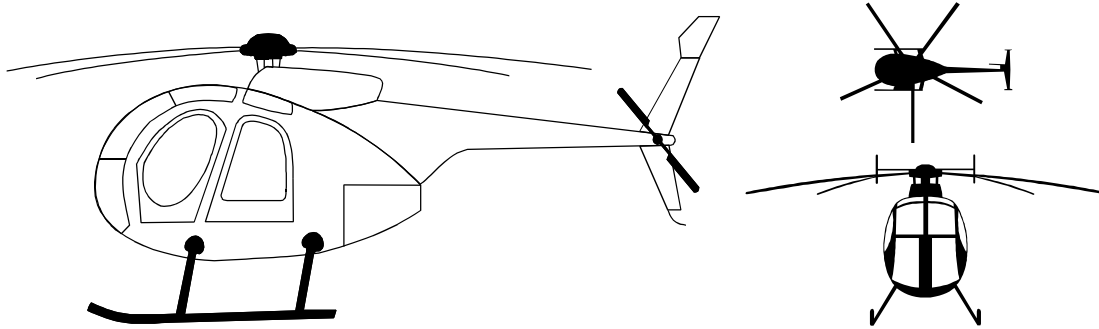


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
39	32	120	82	55	110 / 127	3150	180	4	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	1450	1400	920
Hover-Out-Of-Ground-Effect (jettisonable)	1450	980	530

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Exhibit L-11: McDonnell Douglas (Hughes) MD 500D



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
31	26	96-108	44	29	120 / 138	1600	120	2	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)		775	495
Hover-Out-Of-Ground-Effect (non-jettisonable)		515	295

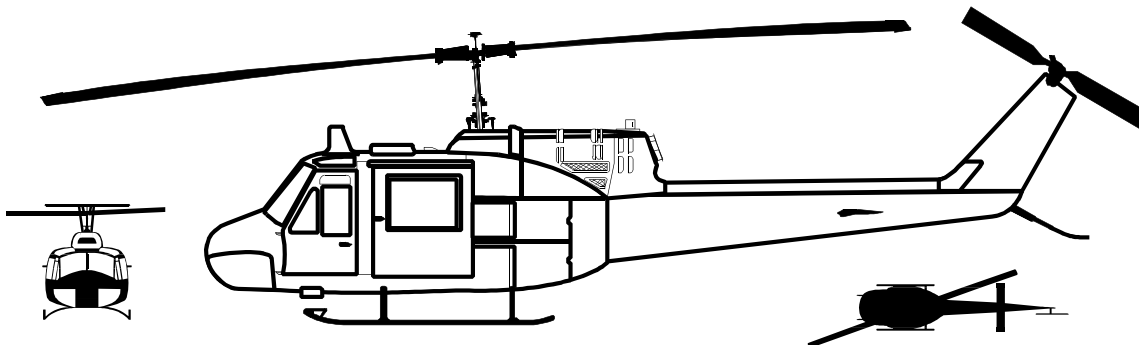
Exhibit L-12: McDonnell Douglas MD 530F

Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
31	27	120-144	51	34	120 / 138	1750	120	4	3

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect (non-jettisonable)		1030	930
Hover-Out-Of-Ground-Effect (non-jettisonable)		1050	830

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Exhibit L-13: Bell 204B



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mph)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	36	180	82	73	120 / 138	4200	160	11	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	1750	1320	975
Hover-Out-Of-Ground-Effect (jettisonable)	1515	920	570

Exhibit L-14: Bell Super 204 (204-B+)

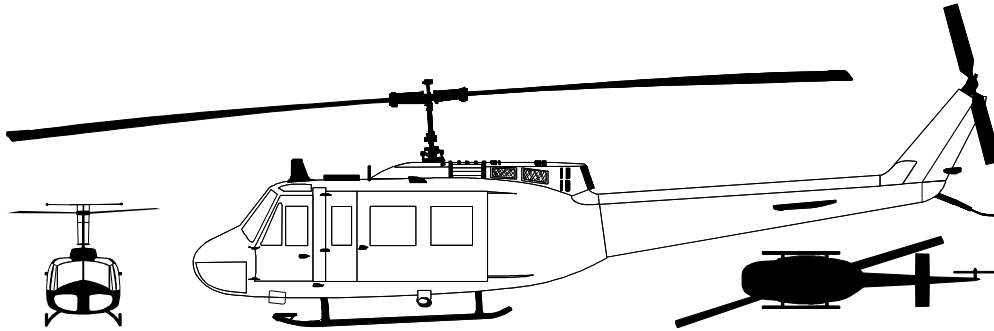
NOTE: The Bell Super 204 is a rebuilt 204 with a 205 engine installed.

Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mph)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	36	180	82	73	120 / 138	4200	160	11	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	1750	1320	975
Hover-Out-Of-Ground-Effect (jettisonable)	1515	920	570

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Exhibit L-15: Bell 205 A-1



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
57	48	324	129	86	90 / 104	5700	260	14	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect		1400	700
Hover-Out-Of-Ground-Effect (jettisonable)		1400	800

Exhibit L-16: Bell Super 205 (205-A+)

NOTE: This helicopter has an 1800-horsepower engine.

Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
57	48	324	130	86	96 / 110	5680	260	14	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect		1415	715
Hover-Out-Of-Ground-Effect (jettisonable)		2815	2065

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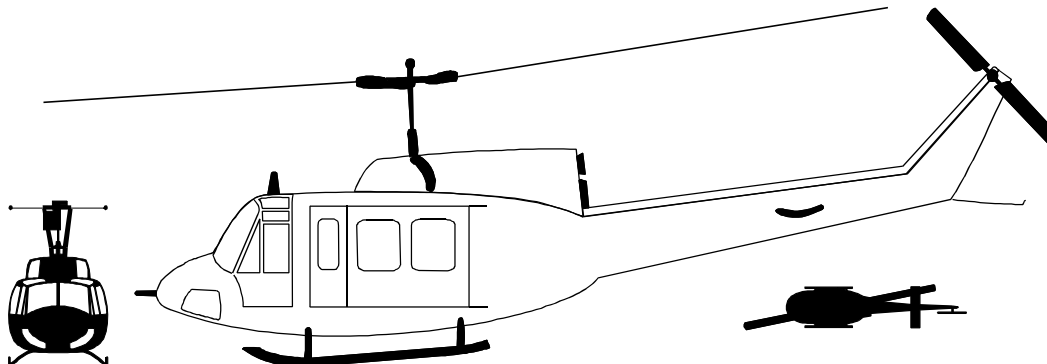
Exhibit L-17: Bell Super Super 205 (205-A++)

NOTE: This helicopter has an 1800-horsepower engine and a Bell 212 rotor system.

Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
57	48	324	130	86	96 / 110	5660	260	14	2
Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.									
Temperature and Elevation					30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet		
Hover-In-Ground-Effect						2550	1750		
Hover-Out-Of-Ground-Effect (jettisonable)						2980	2980		

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Exhibit L-18: Bell 212



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
58	48	324	145	95	100 / 115	6800	390	13	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect		2800	1250
Hover-Out-Of-Ground-Effect (jettisonable)		2000	1250

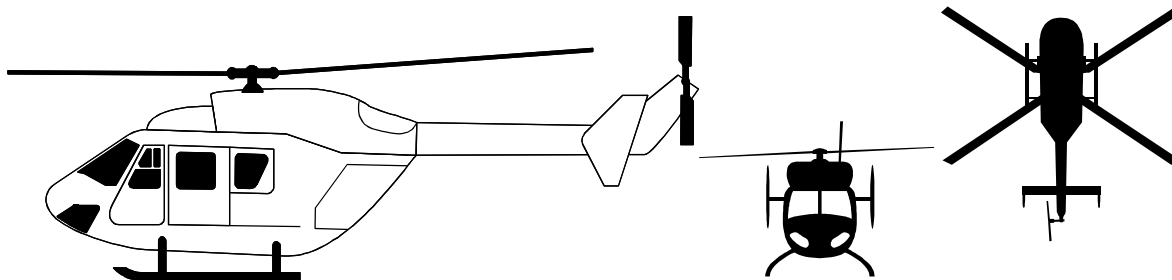
Exhibit L-19: Bell 412

Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
56	46	420	172	115	110 / 127	7250	390	13	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	3300	1900	800
Hover-Out-Of-Ground-Effect (jettisonable)	2500	1900	975

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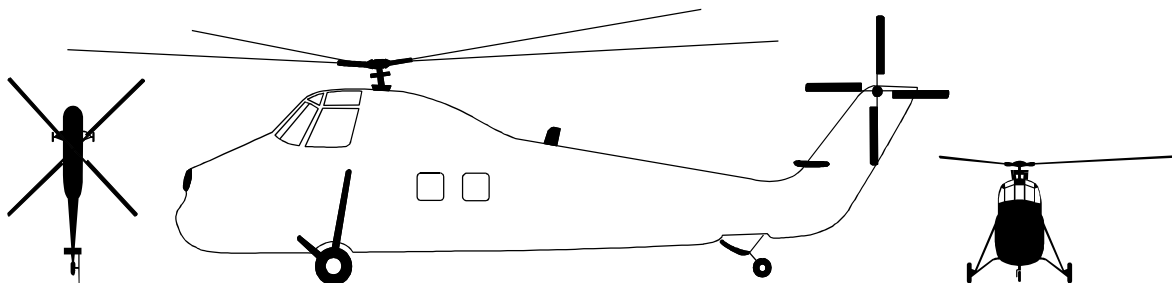
Exhibit L-20: Eurocopter BK-117 A-4



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
43	36	180	82	73	120 / 138	4200	160	11	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	1750	1320	975
Hover-Out-Of-Ground-Effect (jettisonable)	1515	920	570

Exhibit L-21: Sikorsky S-58T

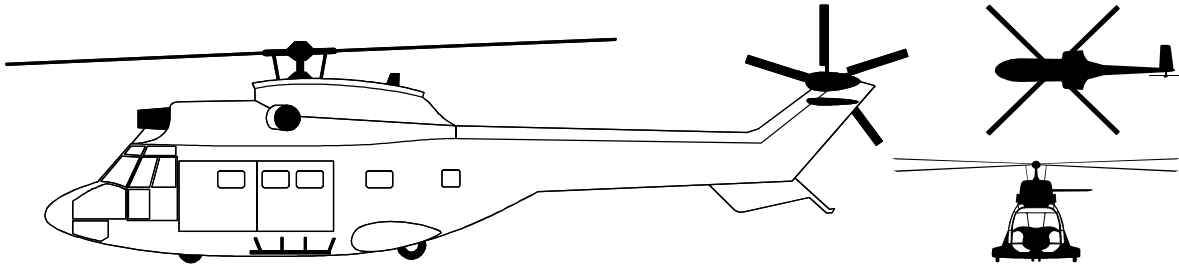


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
42	56	420	165	110	90 / 104	7880	400	12-18	2

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	3275	3275	2575
Hover-Out-Of-Ground-Effect (jettisonable)	3575	2575	1575

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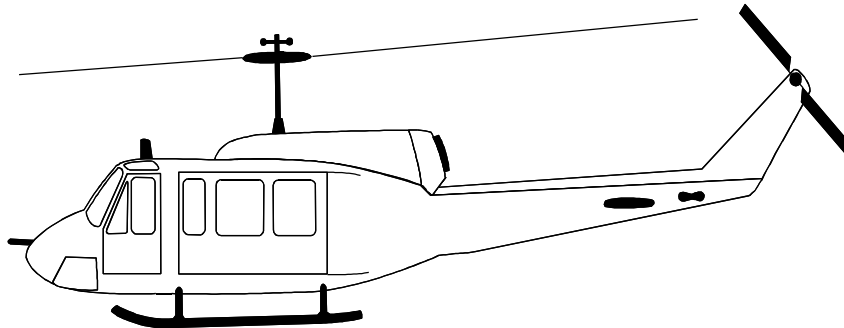
Exhibit L-22: Aerospatiale AS-332L Super Puma



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
61	51	900	240	160	120 / 138	13,500	NA	26	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect		4800	3200
Hover-Out-Of-Ground-Effect (jettisonable)		3900	2300

Exhibit L-23: Bell 214 B-1

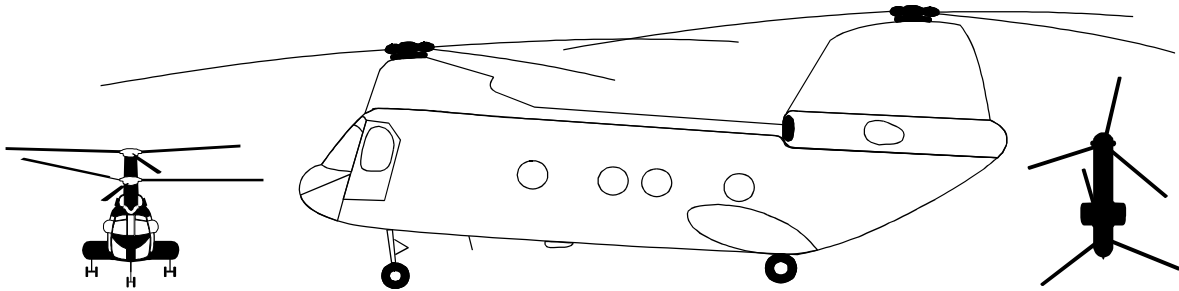


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
62	52	660-800	240	160	140 / 160	8250	380	15-20	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect	2400	2400	2000
Hover-Out-Of-Ground-Effect (jettisonable)	3675	3675	2575

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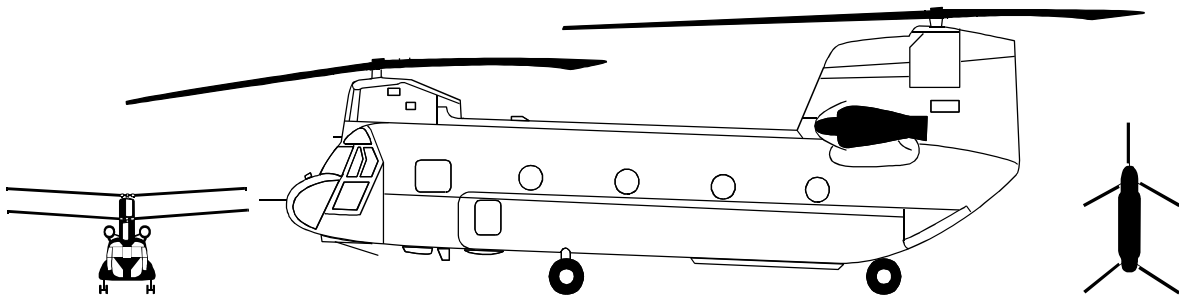
Exhibit L-24: Boeing-Vertol BV-107



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
83	50	900-1000	247	165	120 / 138	11,000	NA	NA	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect			
Hover-Out-Of-Ground-Effect (jettisonable)	11,000	9700	7800

Exhibit L-25: Boeing-Vertol BE-234

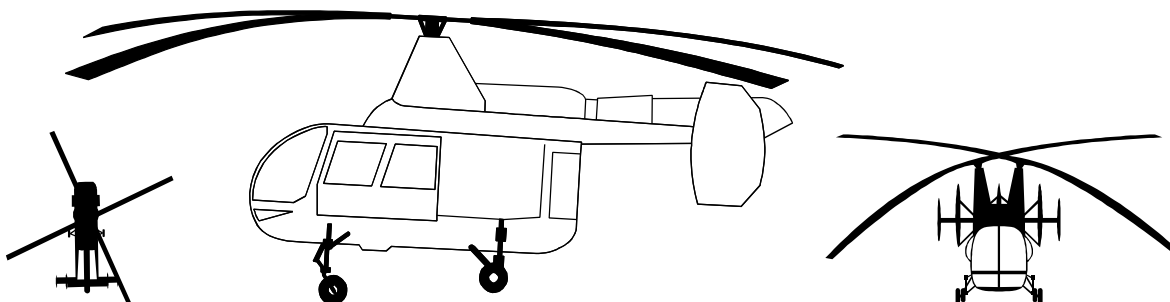


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
99	60	3000	600	400	135 / 155	24,000	NA	46	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect			
Hover-Out-Of-Ground-Effect (jettisonable)	27,000	25,700	17,900

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APPENDIX L - Standard Helicopter Makes and Models

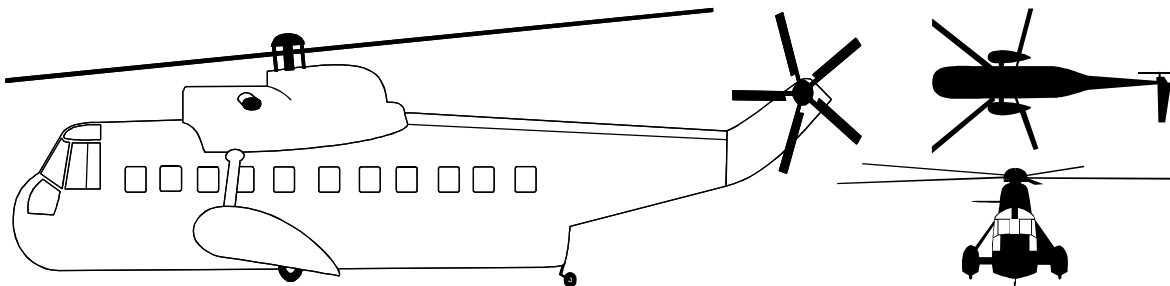
Exhibit L-26: Kaman H-43 Huskie



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
25	47	324		85	85 / 98	4300	NA	NA	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect		3700	3200
Hover-Out-Of-Ground-Effect (jettisonable)		3200	2200

Exhibit L-27: Sikorsky S-61N

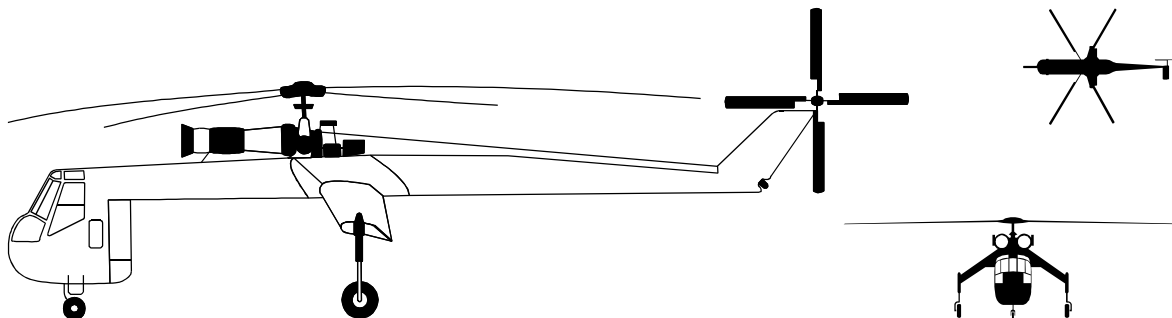


Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
73	62	900	210	160	120 / 138	12,600	NA	NA	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect			
Hover-Out-Of-Ground-Effect (jettisonable)		4420	3000

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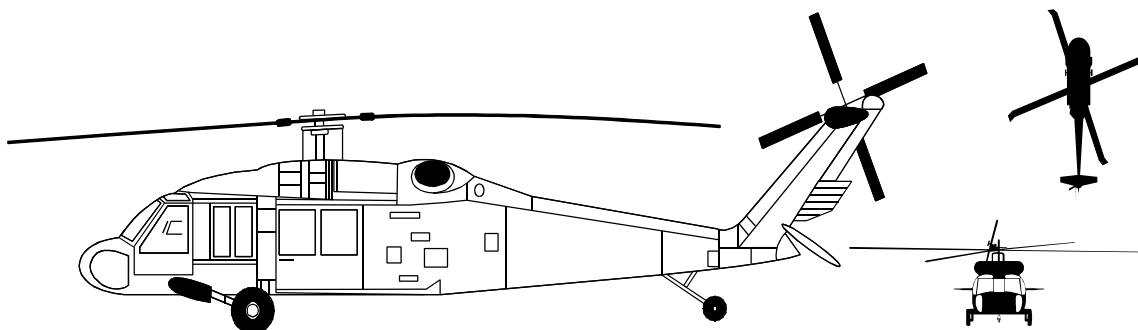
Exhibit L-28: Sikorsky S-64 Skycrane



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
89	72	2000	750	500	80 / 92	20,000	NA	NA	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect			
Hover-Out-Of-Ground-Effect (jettisonable)	20,000	16,400	NA

Exhibit L-29: Sikorsky S-70 (UH-60) Black Hawk



Length (feet)	Rotor Diameter (feet)	Bucket Size (gallons)	1.5 Hour Fuel Load (gallons)	Fuel Consumption (gallons/hour)	Cruise Speed (kts/mpg)	Typical Equip Wt (pounds)	Fixed Wt Reduction (pounds)	Pax Seats	ICS Type
65	54	660	187	125	145 / 167		NA	14-17	1

Typical Allowable Payload (pounds) - Caution: Load Calculations are required prior to flight.			
Temperature and Elevation	30° c ~ 86° F Sea Level	30° c ~ 86° F 5000 feet	25° c ~ 77° F 8000 feet
Hover-In-Ground-Effect		5300	4000
Hover-Out-Of-Ground-Effect (jettisonable)		4000	2200